

# Double Integrals over Non-Rectangular Regions

Ref. Textbook: *Calculus* (10<sup>th</sup> ed.) by Anton, Bivens and Davis

## Iterated Integrals with Nonconstant Limits of Integration

Double integrals over nonrectangular regions can be evaluated as iterated integrals of the following types:

Type I	Type II
$\iint_R f(x, y) dA = \int_a^b \int_{g_1(x)}^{g_2(x)} f(x, y) dy dx$	$\iint_R f(x, y) dA = \int_c^d \int_{h_1(y)}^{h_2(y)} f(x, y) dx dy$
<p>A type I region</p>	<p>A type II region</p>

10-Mar-24

Lesson 09: Double Integrals over Non-Rectangular Regions

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# Double Integrals over Non-Rectangular Regions

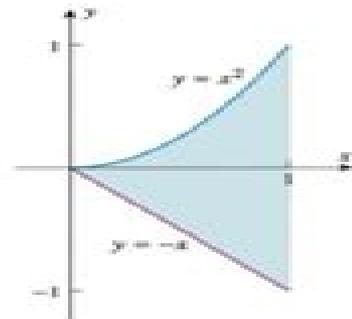
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**Example.** Evaluate the following integrals:

$$(a) \int_0^1 \int_{-x}^{x^2} y^2 x dy dx \quad (b) \int_0^{\pi/3} \int_0^{\cos y} x \sin y dx dy$$

**Solution (a).**

$$\begin{aligned} \int_0^1 \int_{-x}^{x^2} y^2 x dy dx &= \int_0^1 \left[ \int_{-x}^{x^2} y^2 x dy \right] dx = \int_0^1 \left. \frac{y^3 x}{3} \right|_{y=-x}^{x^2} dx \\ &= \int_0^1 \left[ \frac{x^7}{3} + \frac{x^4}{3} \right] dx = \left( \frac{x^8}{24} + \frac{x^5}{15} \right) \Big|_0^1 = \frac{13}{120} \end{aligned}$$



**Solution (b).**

$$\begin{aligned} \int_0^{\pi/3} \int_0^{\cos y} x \sin y dx dy &= \int_0^{\pi/3} \left[ \int_0^{\cos y} x \sin y dx \right] dy = \int_0^{\pi/3} \left. \frac{x^2}{2} \sin y \right|_{x=0}^{\cos y} dy \\ &= \int_0^{\pi/3} \left[ \frac{1}{2} \cos^2 y \sin y \right] dy = -\frac{1}{6} \cos^3 y \Big|_0^{\pi/3} = \frac{7}{12} \end{aligned}$$



# Topics In Integral Geometry

**Israël Mojseevic Gel'fand, Izrail'  
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Graev, Naum ĪĀkovlevich Vilenkin**

## Topics In Integral Geometry:

**Topics in Integral Geometry** De-lin Ren, 1994

**Selected Topics in Integral Geometry** Izrail' Moiseevich

Gel'fand, 2003 The miracle of integral geometry is that it is often possible to recover a function on a manifold just from the knowledge of its integrals over certain submanifolds The founding example is the Radon transform introduced at the beginning of the 20th century Since then many other transforms were found and the general theory was developed Moreover many important practical applications were discovered the best known but by no means the only one being to medical tomography The present book is a general introduction to integral geometry the first from this point of view for almost four d

Integral Geometry from Buffon to Geometers of Today Remi Langevin, 2015 For more than two centuries integral geometry also called the theory of geometric probabilities has followed the development of probability measure theory and geometry The first chapter recalls historical results Buffon's needle and Bertrand's paradoxes Chapters 2 to 7 and 10 present the basic notions and methods slice using all affine lines or planes project on all affine lines and planes and average The method is applied to curves in  $\mathbb{R}^2$  or  $\mathbb{R}^3$  and surfaces in  $\mathbb{R}^3$  In fact results in dimensions 2 and 3 extend easily to higher dimensions and to space forms The last section of Chapters 7 8 and 9 are devoted to statements of the form topology implies some lower bound on the total curvature Again the objects are curves or surfaces contained in  $\mathbb{R}^3$  Integral geometry in spheres Lorentz space of dimension 3 or hyperbolic space  $\mathbb{H}^3$  are the topics of Chapters 11 13 15 and 16 Chapter 12 deals with integral geometry of foliations of a domain of  $\mathbb{R}^3$  or of  $\mathbb{S}^3$  The compacity of Grassmann manifolds was essential to obtain formulas of Euclidean integral geometry in  $\mathbb{R}^3$  or of  $\mathbb{S}^3$  The situation changes drastically when dealing with extrinsic conformal geometry of curves or foliations in  $\mathbb{S}^3$  or  $\mathbb{R}^3$  This is the topic of Chapters 17 and 18 Chapter 19 is an isolated point of the book Its goal is to understand the geometry of the levels of a complex polynomial of two variables near an isolated singular point An appendix briefly presents some notions used in the book Pictures are an essential part of the book and often contain the main ideas of the proofs

*Selected Topics in Integral Geometry* Izrail' Moiseevich Gel'fand, Semen Grigor'evich Gindikin, Mark Iosifovich Graev, 2003-09-02 The miracle of integral geometry is that it is often possible to recover a function on a manifold just from the knowledge of its integrals over certain submanifolds The founding example is the Radon transform introduced at the beginning of the 20th century Since then many other transforms were found and the general theory was developed Moreover many important practical applications were discovered the best known but by no means the only one being to medical tomography The present book is a general introduction to integral geometry the first from this point of view for almost four decades The authors all leading experts in the field represent one of the most influential schools in integral geometry The book presents in detail basic examples of integral geometry problems such as the Radon transform on the plane and in space the John transform the Minkowski Funk transform integral geometry on the hyperbolic plane and in the

hyperbolic space the horospherical transform and its relation to representations of  $SL(2, \mathbb{C})$  integral geometry on quadrics etc The study of these examples allows the authors to explain important general topics of integral geometry such as the Cavalieri conditions local and nonlocal inversion formulas and overdetermined problems Many of the results in the book were obtained by the authors in the course of their career long work in integral geometry

*Integral Geometry and Valuations* Semyon Alesker, Joseph H.G. Fu, 2014-10-09 In the last years there has been significant progress in the theory of valuations which in turn has led to important achievements in integral geometry This book originated from two courses delivered by the authors at the CRM and provides a self contained introduction to these topics covering most of the recent advances The first part by Semyon Alesker provides an introduction to the theory of convex valuations with emphasis on recent developments In particular it presents the new structures on the space of valuations discovered after Alesker's irreducibility theorem The newly developed theory of valuations on manifolds is also described In the second part Joseph H G Fu gives a modern introduction to integral geometry in the sense of Blaschke and Santaló The approach is new and based on the notions and tools presented in the first part This original viewpoint not only enlightens the classical integral geometry of euclidean space but it also allows the computation of kinematic formulas in other geometries such as hermitian spaces The book will appeal to graduate students and interested researchers from related fields including convex stochastic and differential geometry

**Convexity from the Geometric Point of View** Vitor Balestro, Horst Martini, Ralph Teixeira, 2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers

**Advances in Robot**

**Kinematics 2018** Jadran Lenarcic, Vincenzo Parenti-Castelli, 2018-06-22 This is the proceedings of ARK 2018 the 16th International Symposium on Advances in Robot Kinematics that was organized by the Group of Robotics Automation and Biomechanics GRAB from the University of Bologna Italy ARK are international symposia of the highest level organized every two years since 1988 ARK provides a forum for researchers working in robot kinematics and stimulates new directions of research by forging links between robot kinematics and other areas The main topics of the symposium of 2018 were kinematic analysis of robots robot modeling and simulation kinematic design of robots kinematics in robot control theories and methods in kinematics singularity analysis kinematic problems in parallel robots redundant robots cable robots over constrained linkages kinematics in biological systems humanoid robots and humanoid subsystems *Integral Geometry and Geometric Probability* Luis A. Santalo, 1984-12-28 Integral geometry originated with problems on geometrical probability and convex bodies Its later developments however have proved to be useful in several fields ranging from pure mathematics measure theory continuous groups to technical and applied disciplines pattern recognition stereology This book is a systematic exposition of the theory and a compilation of the main results in the field The volume can be used for a one semester undergraduate course in probability and differential geometry or as a complement to classical courses on differential geometry Lie groups or probability

**Convex Bodies: The Brunn-Minkowski Theory** Rolf Schneider, 2014 A complete presentation of a central part of convex geometry from basics for beginners to the exposition of current research

Integral Geometry and Geometric Probability Luis Antonio Santaló, 1976 **Integral Geometry** Robert L. Bryant, 1987 The topic of integral geometry is not as well known as its counterpart differential geometry However research in integral geometry has indicated that this field may yield as equally deep insights as differential geometry has into the global and local nature of manifolds and the functions on them In 1984 an AMS IMS SIAM joint summer research conference on integral geometry was held at Bowdoin College This volume consists of papers presented there The papers range from purely expository to quite technical and represent a good survey of contemporary work in integral geometry Three major areas are covered the classical problems of computing geometric invariants by statistical averaging procedures the circle of ideas concerning the Radon transform going back to the seminal work of Funk and Radon around 1916 1917 and integral geometric transforms which are now being used in the study of field equations in mathematical physics Some of these areas also involve group representation theoretic problems *Integral Geometry and Representation Theory* Israël Moiseevic Gel'fand, Izrail' Moiseevich Gel'fand, Mark Iosifovich Graev, Naum I. Iokovlevich Vilenkin, 1966 *Advances in Applied Probability*, 1993 **The Bulletin of the University of Minnesota [Announcements]**. University of Minnesota, 1925 ... Catalogue Haverford College, 1922 The American Mathematical Monthly, 1916 Includes section Recent publications **Summer Quarter** University of Chicago, 1895 *Cornell University Announcements* Cornell University, 1914 **Special Reports on Educational Subjects**, 1912 **Special Reports on Educational Subjects**

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